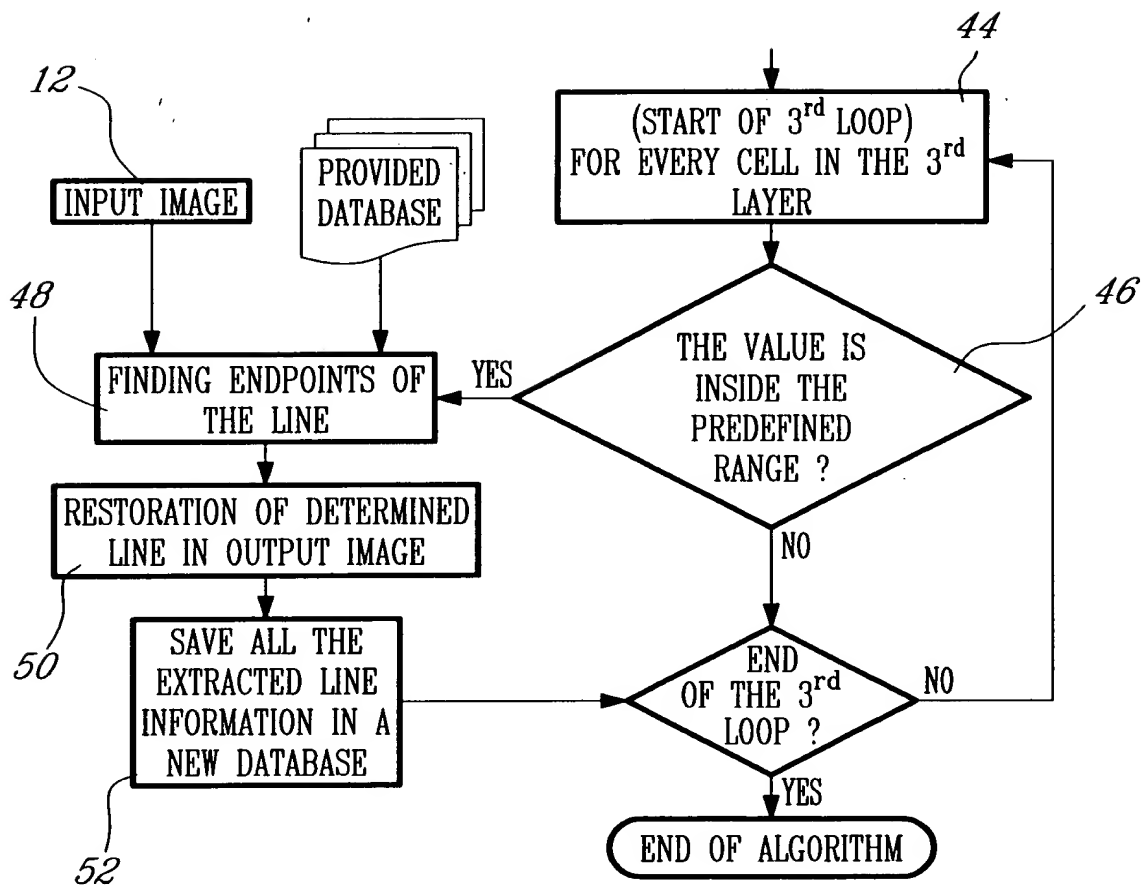


```

graph TD
    12[INPUT IMAGE] --> 16([DESIGN THE DISCRETE  
PARAMETER DOMAIN])
    10[LENGTH OF LINES  
TO BE DETECTED] --> 16
    16 --> 18[INITIALIZE PARAMETER DOMAIN]
    18 --> 20[START OF 1st LOOP  
FOR EVERY POSITION IN THE  
PARAMETER DOMAIN]
    20 --> 22[COMPUTATION OF LINE / CURVE  
DETERMINISTIC PARAMETERS]
    22 --> 24[START OF 2nd LOOP  
DETERMINATION OF CORRESPONDING  
PIXEL'S COORDINATES]
    24 --> 26[FINDING THE NEAREST PIXEL TO  
DETERMINED COORDINATES IN  
THE INPUT IMAGE]
    26 --> 28{NUMERICAL  
VALUE OF PIXEL  
IS ZERO ?}
    28 -- YES --> 30[INCREMENT NUMBER  
OF ZERO PIXELS]
    30 --> 32[SAVE THE OBTAINED  
VALUE IN THE 4th LAYER  
OF DATABASE]
    32 --> 24
    28 -- NO --> 34[INCREMENT NUMBER  
OF NON ZERO PIXELS]
    34 --> 36[SAVE THE OBTAINED  
VALUE IN THE 3rd LAYER  
OF DATABASE]
    36 --> 38[SAVE THE PIXEL  
COORDINATES IN THE  
2nd LAYER OF DATABASE]
    38 --> 40[ACCUMULATION OF  
PIXEL NUMERICAL  
VALUES]
    40 --> 42[SAVE THE OBTAINED  
VALUE IN THE 5th LAYER  
OF DATABASE]
    42 --> 44{END  
OF THE 2nd  
LOOP ?}
    44 -- NO --> 24
    44 -- YES --> 46{END  
OF THE 1st  
LOOP ?}
    46 -- YES --> 48[END]
    46 -- NO --> 20

```



09900886-07100-1

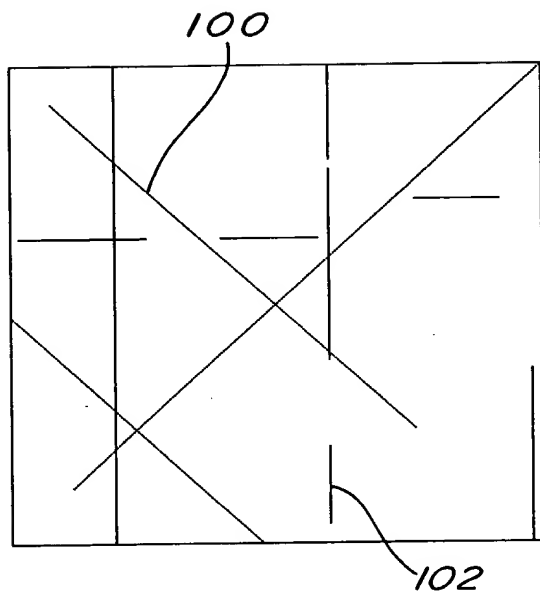


FIG. 2

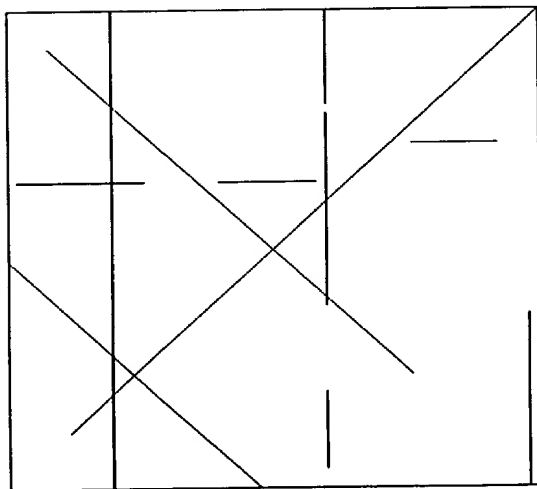


FIG. 3

09900886.071001

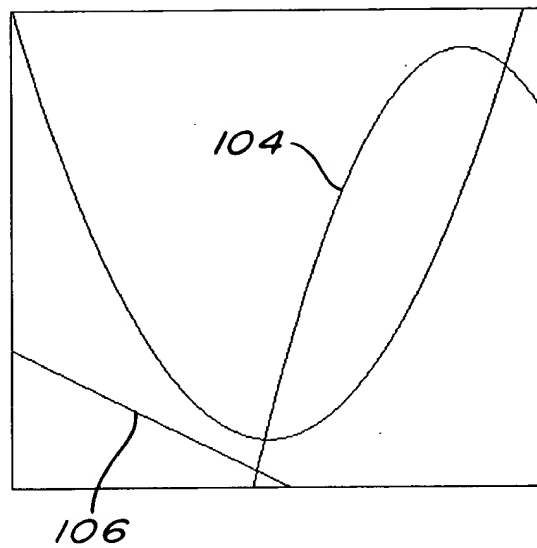


FIG. 4

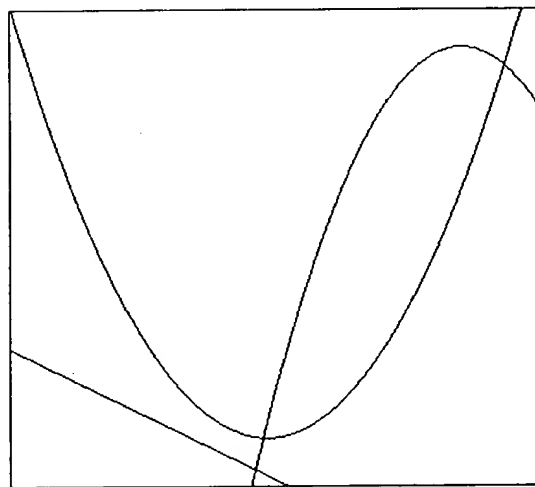


FIG. 5

Fig. 9

FIG. 10

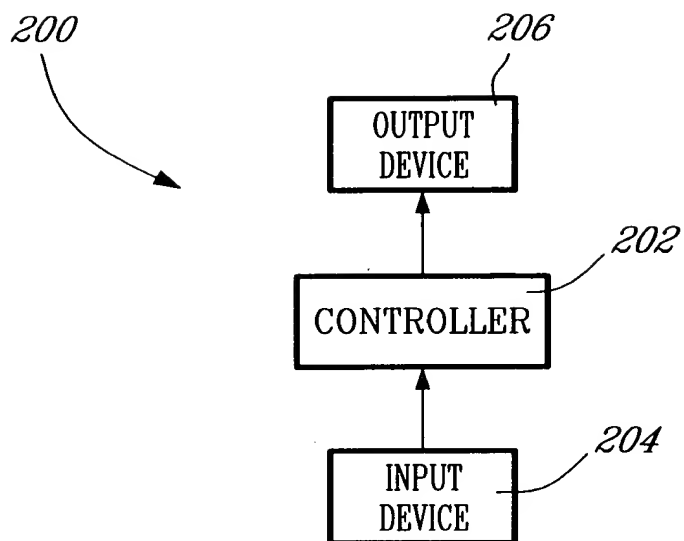


FIG. 10